

### AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

#### Listing of the Claims:

1. (Currently Amended) A hearing prosthesis system comprising:

a first housing containing a primary signal processor, ~~that receives~~ configured to receive signals output by a microphone; and

a plurality of second housings, each configured to ~~that are~~ removably connect ~~connectable~~ to the first housing;

~~wherein only one of said second housings is connectable to said first housing at any one time and further~~ wherein at least one of said second housings has a user interface ~~that provides~~ configured to allow user control of one or more features of the operation of the primary signal processor.

2. (Currently Amended) The hearing prosthesis system of claim 1 wherein one or more of said plurality of second housings contains a power supply for at least some of the components of the hearing prosthesis system.

3. (Currently Amended) The hearing prosthesis system of claim 1 wherein one or more of said plurality of second housings contains a power supply and has a user interface configured to allow user ~~that provides~~ control of one or more features of the primary signal processor.

4. (Currently Amended) The hearing prosthesis system of claim 1, further comprising:

a connector unit including ~~wherein one or more~~ of said plurality of second housings is ~~connectable~~ and configured to communicate, via an ~~by an~~ electrically conducting lead, with ~~lead to~~ a remote module housing a power supply.

5. (Currently Amended) The hearing prosthesis system of claim 1 wherein one or more of said plurality of second housings is ~~connectable by an~~ configured to communicate, via an electrically conducting lead, with lead to a remote module including and ~~wherein~~ a user interface is ~~provided on the remote module~~.

6. (Currently Amended) The hearing prosthesis system of claim 1 wherein one or more of said plurality of second housings is ~~connectable by an~~ configured to communicate, via an electrically conducting lead, with lead to a remote module configured to house a power supply, and wherein the one or more of said plurality of second housings has ~~is provided with~~ a user interface and ~~the remote module houses a power supply~~.

7. (Currently Amended) The hearing prosthesis system of claim 1 wherein one or more of said plurality of second housings is ~~connectable by an~~ configured to communicate, via an electrically conducting lead, with lead to a remote module and ~~wherein the remote module houses~~ configured to house a power supply and ~~has~~ having a user interface.

8. (Currently Amended) The hearing prosthesis system of claim 1, wherein one or more of said plurality of second housings contains signal receiver circuitry ~~means for receiving~~ configured to receive signals from a remote module having a user interface.

9. (Cancelled)

10. (Currently Amended) The hearing prosthesis system of claim 8 wherein the second housing contains a power source.

11. (Currently Amended) The hearing prosthesis system of claim 8 wherein the remote module houses signal transmission circuitry ~~that sends~~ configured to provide radio frequency signals to the second housing in response to adjustments made to the user interface.

12. (Currently Amended) The hearing prosthesis system of claim 8 wherein the signal receiver circuitry is a ~~one or more of said plurality of second housings contains~~ signal transceiver ~~means for receiving~~ configured to receive and ~~sending~~ send signals from and to a remote module having a user interface.

13. (Cancelled)

14. (Currently Amended) The hearing prosthesis system of claim 12 wherein the remote module houses signal transceiver circuitry ~~that sends and receives~~ configured to send and receive radio frequency signals to and from the signal transceiver of each of the one or more of said plurality of second housing ~~housing~~ housings in response to adjustments made to the user interface.

15-21. (Cancelled)

22. (Previously Presented) The hearing prosthesis system of claim 4 wherein the remote module has a visual display.

23. (Currently Amended) The hearing prosthesis system of claim 22 wherein the visual display comprises at least one of a ~~one or more~~ light emitting diode (LED) and ~~diodes (LEDs)~~ and/or a liquid crystal display (LCD).

24. (Currently Amended) The hearing prosthesis system of claim 22 wherein the visual display ~~provides~~ is configured to provide a user ~~a recipient of the system or their carer~~ with information about the performance of one or more aspects of the prosthesis system.

25-26. (Cancelled)

27. (Currently Amended) The hearing prosthesis system of any one of claim 1 wherein the user interface comprises ~~one or more~~ at least one of a push button, a switch and a rotary control. ~~switches and/or and one or more dials or rotary controls.~~

28. (Currently Amended) The hearing prosthesis system of claim 27 wherein the user interface comprises a push button configured to cause at least one of activation of the primary signal processor, ~~that activates and/or deactivates~~ deactivation of the primary signal processor and/or selects and selection of a program for the primary signal processor to perform. ~~program.~~

29. (Currently Amended) The hearing prosthesis system of claim 27 wherein the user interface comprises a dial ~~that allows adjustment of~~ configured to adjust the volume and sensitivity of the primary signal processor.

30. (Currently Amended) The hearing prosthesis system of claim 27 wherein the user interface comprises a ~~further~~ push button ~~that allows~~ configured to allow selection of whether input to the primary signal processor is provided by the microphone, a telecoil or a mixture of inputs.

31. (Currently Amended) The hearing prosthesis system of claim 27 wherein the user interface ~~incorporates~~ includes at least one tactile position control ~~that,~~ configured to provide, through its position, ~~provides~~ feedback to a user regarding the recipient and/or their carer as to the setting of that the tactile position control.

32. (Cancelled)

33. (Currently Amended) The hearing prosthesis system of claim 1 wherein the user interface comprises a first three-position switch ~~that allows a recipient and/or their earer~~ configured to allow a user to select which speech a speech program is to be used, a dial ~~that allows adjustment of~~ configured to allow a user to adjust the volume and sensitivity of the primary signal processor, and a second three-position switch ~~which allows a recipient and/or their earer~~ configured to allow a user to set specify whether the primary signal processor is ~~receiving~~ is to receive input from the microphone, a telecoil, or a ~~mix of such~~ mixture of inputs.

34-36. (Cancelled)

37. (Currently Amended) The hearing prosthesis system of claim 1 wherein at least the first housing and the second housing are ~~positionable~~ configured to be worn on the ear of the recipient.

38. (Currently Amended) The hearing prosthesis system of claim 1, wherein the hearing prosthesis system is comprising a cochlear implant system.

39. (Currently Amended) A hearing prosthesis comprising:

a first housing containing a primary signal processor ~~that receives~~ configured to receive signals output by a microphone; and

a second housing configured to removably connect ~~connectable~~ to the first housing;  
and

~~wherein~~ a user interface is ~~provided on the second housing that provides~~ mounted to the second housing and to allow user control of one or more features of the operation of the primary signal processor.

40. (Currently Amended) The hearing prosthesis of claim 39 wherein the second housing ~~includes~~ contains a power supply.

41. (Currently Amended) The hearing prosthesis of claim 39 wherein the second housing contains circuitry configured to communicate with ~~is connectable to~~ a remote module.

42. (Original) The hearing prosthesis of claim 41 wherein the remote module has a further user interface.

43-44. (Cancelled)

45. (Currently Amended) The hearing prosthesis of claim 42 wherein the further user interface of the remote module is configured to allow user control of at least ~~controls some or~~ ~~all~~ of the same features of the hearing prosthesis ~~that are controlled by~~ for which the user interface of the second housing is configured to allow user control.

46. (Currently Amended) The hearing prosthesis of claim 41 wherein the hearing prosthesis is configured to render the second housing user interface mounted to the second housing is ~~rendered~~ partially or fully inoperable when the remote module is used in conjunction with the second housing of the hearing prosthesis.

47. (Currently Amended) The hearing prosthesis of claim 42 wherein the further user interface configured to be mounted to either ~~is mountable to both~~ the remote module ~~and to the or the~~ second housing.

48. (Previously Presented) The hearing prosthesis of claim 41 wherein the remote module has a visual display.

49. (Currently Amended) The hearing prosthesis of claim 48 wherein the visual display comprises one or more of a liquid crystal display (LCD) and one or more light emitting diodes (LEDs) ~~and/or a liquid crystal display (LCD).~~

50. (Currently Amended) The hearing prosthesis of claim 48 wherein the visual display is configured to provide a user ~~provides a recipient of the system or their earer~~ with information about the performance of one or more aspects of the hearing prosthesis.

51. (Currently Amended) A hearing prosthesis comprising:

a first housing containing a primary signal processor ~~that receives~~ configured to receive signals output by a microphone; and

a second housing configured to removably connect to the first housing;

a remote ~~module;~~ module configured to communicate with circuitry contained in the second housing and including wherein a user interface is provided on the remote module that provides configured to allow control of one or more features of the operation of the primary signal processor.

52. (Currently Amended) The hearing prosthesis of claim 51, wherein the hearing prosthesis is configured for comprising ~~a one-way or two-way wireless communication between the remote module and the primary signal processor.~~

53-54. (Cancelled)

55. (Currently Amended) The hearing prosthesis of claim 39 wherein the user interface comprises at least one of a push button, a switch and a rotary control. ~~one or more push buttons or switches and/or one or more dials or rotary controls.~~

56. (Currently Amended) The hearing prosthesis of claim 55 wherein the user interface comprises a push button ~~that activates and/or deactivates~~ configured to cause at least one of activation of the primary signal processor, deactivation of the primary signal processor and/or selects and selection of a program for the primary signal processor to perform. ~~programme.~~

57-58. (Cancelled)

59. (Currently Amended) The hearing prosthesis of claim 39 wherein the user interface ~~incorporates~~ includes at least one tactile position control ~~that,~~ configured to provide, through its position, ~~provides~~ feedback to a user regarding the recipient and/or their carer as to the setting of that the tactile position control.

60. (Cancelled)

61. (Previously Presented) The hearing prosthesis of claim 39 wherein the user interface comprises a first three-position switch ~~that allows a recipient and/or their carer~~ configured to allow a user to select a speech program, which speech programme is to be used, a dial ~~that allows adjustment of~~ configured to allow a user to adjust the volume and sensitivity of the primary signal processor, and a second three-position switch ~~which allows a recipient and/or their carer~~ configured to allow a user to set specify whether the primary signal processor ~~is receiving~~ is to receive input from the microphone, a telecoil, or a ~~mix of such~~ mixture of inputs.

62-63. (Cancelled)

64. (Currently Amended) The hearing prosthesis of claim 39, wherein the hearing prosthesis is comprising a cochlear implant.



65. (Currently Amended) A speech processing unit ~~for a~~ of a hearing prosthesis ~~recipient~~, the speech processing unit comprising:

a ~~main-part~~ first component configured ~~for wearing to be worn~~ behind an ear of a ~~recipient~~, the hearing prosthesis recipient, the ~~main-part~~ first component including a ~~primary~~ signal processor configured to perform ~~for carrying out primary~~ signal processing functions associated with the speech processing unit; and

a ~~replaceable part being~~ second component configured to removably connect to the first component, ~~connectable with the primary part~~, the ~~replaceable part~~ second component including a user interface ~~for communication~~ configured to communicate with the ~~primary~~ signal processor.

66. (Currently Amended) A speech processing unit ~~for a~~ of a cochlear implant ~~recipient~~, the speech processing unit comprising:

a ~~main-part~~ first component configured ~~for wearing to be worn~~ behind an ear of ~~the~~ ~~cochlear implant recipient~~, a recipient, the ~~main-part~~ first component including a ~~primary~~ signal processor configured to perform ~~for carrying out primary~~ signal processing functions associated with the speech processing unit; and

a ~~replaceable part being~~ second component configured to removably connect to the first component, ~~connectable with the primary part~~, the ~~replaceable part~~ second component including a battery compartment and a ~~and~~ user interface ~~for communication~~ configured to communicate with the ~~primary~~ signal processor.

67. (New) The hearing prosthesis system of claim 1, wherein at least one of the second housings includes a visual display device.